

ABSTRACT

A method and communication system (e.g., TDD system) that uses adaptive antennas at the base stations to monitor metrics associated with the quality of one or more CPCH timeslots, so as to determine whether to reuse some or all of the CPCH timeslots to transmit the DPCH. If it is determined to reuse some or all of the CPCH timeslots, an additional determination is made as to what limit to apply on the DPCH transmission powers. Adaptive antennas may be used at the base stations to allow the system to reuse some or all of the CPCH timeslots to transmit DPCH, thus improving the overall capacity of the system while maintaining the CPCH coverage and quality at a desired level throughout the system.